

SEQUENCE LISTING

- (1) GENERAL INFORMATION:
- (i) APPLICANT: Yoram Reiter
 - (ii) TITLE OF INVENTION: SINGLE CHAIN CLASS I MAJOR HISTO-COMPATIBILITY COMPLEXES, CONSTRUCTS ENCODING SAME AND METHODS OF GENERATING SAME
 - (iii) NUMBER OF SEQUENCES: 20
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
 - (B) STREET: 2001 Jefferson Davis Highway, Suite 207
 - (C) CITY: Arlington
 - (D) STATE: Virginia
 - (E) COUNTRY: United States of America
 - (F) ZIP: 22202
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
 - (B) COMPUTER: Twinhead* Slimnote-890TX
 - (C) OPERATING SYSTEM: MS DOS version 6.2, Windows version 3.11
 - (D) SOFTWARE: Word for Windows version 2.0 converted to an ASCII file
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Friedman, Mark M.
 - (B) REGISTRATION NUMBER: 33,883
 - (C) REFERENCE/DOCKET NUMBER: 74/92
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 972-3-5625553
 - (B) TELEFAX: 972-3-5625554
 - (C) TELEX:
- (2) INFORMATION FOR SEQ ID NO:1:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
Ile Met Asp Gln Val Pro Phe Ser Val
5
- (2) INFORMATION FOR SEQ ID NO:2:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
Tyr Leu Glu Pro Gly Pro Val Thr Val
5
- (2) INFORMATION FOR SEQ ID NO:3:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
Leu Leu Phe Gly Tyr Pro Val Tyr Val
5
- (2) INFORMATION FOR SEQ ID NO:4:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1248
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

ATGATCCAGC	GTACTCCAAA	GATTCAGGTT	TACTCACGTC	ATCCAGCAGA	50
GAATGGAAAG	TCAAATTTCC	TGAATTGCTA	TGTGTCTGGG	TTTCATCCAT	100
CCGACATTGA	AGTTGACTTA	CTGAAGAATG	GAGAGAGAAT	TGAAAAAGTG	150
GAGCATTGAG	ACTGTCTTT	CAGCAAGGAC	TGGTCTTTCT	ATCTCTTGTA	200
TTTACTGAG	TTTACCCCA	CTGAAAAAGA	TGAGTATGCC	TGCCGTGTGA	250

10075557 021502

ACCACGTGAC TTTGTCACAG CCCAAGATAG TTAAGTGGGA TCGAGACATG 300
 GGTGGCGGTG GAAGCGGCGG TGGAGGCTCT GGTGGAGGTG GCAGCGGCTC 350
 TCACTCCATG AGGTATTTCT TCACATCCGT GTCCCGGCCG GCGCGCGGG 400
 AGCCCCGCTT CATCGCAGTG GGCTACGTGG ACGACACGCA GTTCGTGCGG 450
 TTCGACAGCG ACGCCGCGAG CCAGAGGATG GAGCCGCGGG CGCCGTGGAT 500
 AGAGCAGGAG GGTCCGGAGT ATTGGGACGG GGAGACACGG AAAGTGAAGG 550
 CCCACTCACA GACTCACCGA GTGGACCTGG GGACCCTGCG CGGCTACTAC 600
 AACCAGAGCG AGGCCGGTTC TCACACCGTC CAGAGGATGT ATGGCTGCGA 650
 CGTGGGGTCG GACTGGCGCT TCCTCCGCGG GTACCACCAG TACGCCTACG 700
 ACGGCAAGGA TTACATCGCC CTGAAAGAGG ACCTGCGCTC TTGGACCGCG 750
 GCGGACATGG CAGCTCAGAC CACCAAGCAC AAGTGGGAGG CGGCCCATGT 800
 GGCGGAGCAG TTGAGAGCCT ACCTGGAGGG CACGTGCGTG GAGTGGCTCC 850
 GCAGATACCT GGAGAACGGG AAGGAGACGC TGCAGCGCAC GGACGCCCCC 900
 AAAACGCACA TGACTCACCA CGCTGTCTCT GACCATGAAG CCACCCTGAG 950
 GTGCTGGGCC CTGAGCTTCT ACCCTGCGGA GATCACACTG ACCTGGCAGC 1000
 GGACTTGGAG GAATCTTTGA GGCAATGAAG ATGGAGCTGC GGGACTGA 1248

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 415
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Met Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro
 5 10 15
 Ala Glu Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly
 20 25 30
 Phe His Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu
 35 40 45
 Arg Ile Glu Lys Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp
 50 55 60
 Trp Ser Phe Tyr Leu Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu
 65 70 75
 Lys Asp Glu Tyr Ala Cys Arg Val Asn His Val Thr Leu Ser Gln
 80 85 90
 Pro Lys Ile Val Lys Trp Asp Arg Asp Met Gly Gly Gly Gly Ser
 95 100 105
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Ser His Ser Met
 110 115 120
 Arg Tyr Phe Phe Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro
 125 130 135
 Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg
 140 145 150
 Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg Ala Pro
 155 160 165
 Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Gly Glu Thr Arg
 170 175 180
 Lys Val Lys Ala His Ser Gln Thr His Arg Val Asp Leu Gly Thr
 185 190 195
 Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Val
 200 205 210
 Gln Arg Met Tyr Gly Cys Asp Val Gly Ser Asp Trp Arg Phe Leu
 215 220 225
 Arg Gly Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala
 230 235 240
 Leu Lys Glu Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala
 245 250 255
 Gln Thr Thr Lys His Lys Trp Glu Ala Ala His Val Ala Glu Gln
 260 265 270
 Leu Arg Ala Tyr Leu Glu Gly Thr Cys Val Glu Trp Leu Arg Arg
 275 280 285
 Tyr Leu Glu Asn Gly Lys Glu Thr Leu Gln Arg Thr Asp Ala Pro
 290 295 300
 Lys Thr His Met Thr His His Ala Val Ser Asp His Glu Ala Thr
 305 310 315
 Leu Arg Cys Trp Ala Leu Ser Phe Tyr Pro Ala Glu Ile Thr Leu
 320 325 330
 Thr Trp Gln Arg Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu
 335 340 345
 Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala
 350 355 360
 Ala Val Val Val Pro Ser Gly Gln Glu Gln Arg Tyr Thr Cys His
 365 370 375
 Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu Arg Trp Glu
 380 385 390
 Gln Ser Thr Arg Gly Gly Ala Ser Gly Gly Gly Leu Gly Gly Ile
 395 400 405
 Phe Glu Ala Met Lys Met Glu Leu Arg Asp
 410 415

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser Val Ser Arg Pro
 5 10 15
 Gly Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp
 20 25 30
 Thr Gln Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met
 35 40 45
 Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp
 50 55 60
 Asp Gly Glu Thr Arg Lys Val Lys Ala His Ser Gln Thr His Arg
 65 70 75
 Val Asp Leu Gly Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala
 80 85 90
 Gly Ser His Thr Val Gln Arg Met Tyr Gly Cys Asp Val Gly Ser
 95 100 105
 Asp Trp Arg Phe Leu Arg Gly Tyr His Gln Tyr Ala Tyr Asp Gly
 110 115 120
 Lys Asp Tyr Ile Ala Leu Lys Glu Asp Leu Arg Ser Trp Thr Ala
 125 130 135
 Ala Asp Met Ala Ala Gln Thr Thr Lys His Lys Trp Glu Ala Ala
 140 145 150
 His Val Ala Glu Gln Leu Arg Ala Tyr Leu Glu Gly Thr Cys Val
 155 160 165
 Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys Glu Thr Leu Gln
 170 175 180
 Arg Thr Asp Ala Pro Lys Thr His Met Thr His His Ala Val Ser
 185 190 195
 Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe Tyr Pro
 200 205 210
 Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln Thr
 215 220 225
 Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 230 235 240
 Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Gln Glu Gln
 245 250 255
 Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu
 260 265 270
 Thr Leu Arg Trp Glu Gln Ser Thr Arg Gly
 275 280 285
 290

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 100
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Met Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro
 5 10 15
 Ala Glu Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly
 20 25 30
 Phe His Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu
 35 40 45
 Arg Ile Glu Lys Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp
 50 55 60
 Trp Ser Phe Tyr Leu Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu
 65 70 75
 Lys Asp Glu Tyr Ala Cys Arg Val Asn His Val Thr Leu Ser Gln
 80 85 90
 Pro Lys Ile Val Lys Trp Asp Arg Asp Met
 95 100

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 36
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

AGGAGATATA CATATGGGCT CTCACCTCAT GAGGTA 36

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 43

10075257.021502

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
 CGGGCTTTGT TAGCACCGAT TCATAGGTGA GGGGCTTGGG CAA 43

(2) INFORMATION FOR SEQ ID NO:10:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 15
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 5 10 15

(2) INFORMATION FOR SEQ ID NO:11:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 35
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
 GGAGATATAC ATATGATCCA GCGTACTCCA AAGAT 35

(2) INFORMATION FOR SEQ ID NO:12:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 49
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
 CGGGCTTTGT TAGCAGCCGA ATTCATTACA TGTCTCGATC CCACTTAAC 49

(2) INFORMATION FOR SEQ ID NO:13:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 41
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
 GGAAGCGGTT GCGCATATG ATCCAGCGTA CTCAAAGAT T 41

(2) INFORMATION FOR SEQ ID NO:14:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
 GGAAGCGGCG GTGGAGGCTC TGGTGGAGGT GGCAGCGGCT CTCACTCCAT 50
 GA 52

(2) INFORMATION FOR SEQ ID NO:15:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
 GGAAGCGGCG GTGGAGGCTC TGGTGGAGGT GGCAGCGGCT CTCACTCCAT 50
 GA 52

(2) INFORMATION FOR SEQ ID NO:16:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 43
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
 GGGAGAATTC TTACTCCCAT CTCAGGGTGA GGGGCTTGGG CAA 43

(2) INFORMATION FOR SEQ ID NO:17:
 (1) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
 Leu Gly Gly Ile Phe Glu Ala Met Lys Met Glu Leu Arg Asp

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5

10

(2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 11
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Gln Ser Thr Arg Gly Gly Ala Ser Gly Gly Gly
 5 10

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 100
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

CAGTAAAAGC TTTTATCAG CCTCCGAAC GTGGATGCCT CCACGCCGAA 50
 CCTCCACCAG AACCACCTCC GGACCCGCCA CCTCCCTCCC ATCTCAGGGT 100

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 39
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

GGAATCTTG AGGCAATGAA GATGGAGCTG CGGGACTGA 39

10075957.021500
 205720.256200